BILL NO. S-81-11-12

SPECIAL ORDINANCE NO. S-26081

AN ORDINANCE approving Change Order Nos. 1, 2, 3, 4 and 5 for 310-80, Phase I, St. Joe Interceptor Interconnect in connection with the Board of Public Works

BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT WAYNE, INDIANA:

SECTION 1: That Change Order No. 1 for 310-80, Phase I, St. Joe Interceptor Interconnect to Rocco Ferrera & Co., Inc. in connection with the Board of Public Works, for:

change eliminating poured in place manhole structures and replacing them with precast structures,

SECTION 2: That Change Order No. 2 for 310-80, Phase I, St. Joe Interceptor Interconnect to Rocco Ferrera & Co., Inc. in connection with the Board of Public Works, for:

due to shallowness of our 68" x 106" Eliptical pipe, and a possibility of it floating in area of River Channel, it became necessary to encase the pipe in concrete to eliminate any possible change of floatation. Field conditions on the 72" drainage structure differed from those originally anticipated and made it necessary to tunnel under the box structure instead of open cutting of the installation. Also, the excavated material which was to be used as backfill was spoted in certain areas and it became necessary to use a special "B" Borrow Backfill,

SECTION 3: That Change Order No. 3 for 310-80, Phase I, St. Joe Interceptor Interconnect to Rocco Ferrera & Co., Inc. in connection with the Board of Public Works, for:

due to a conflict between the utility, relocation and trees on Tennessee Avenue and Tilden Avenue, it became necessary to remove the trees along the north side of these streets to allow room for those utilities. With this change it increased the number of trees removed and therefore, required additional replacement,

SECTION 4: That Change Order No. 4 for 310-80, Phase I, St. Joe Interceptor Interconnect to Rocco Ferrera & Co., Inc. in connection with the Board of Public Works, for:

once construction began on Tennessee and California Road, the excavation became so extensive and so many cross cuts in the pavement were required that the amount of existing pavement left in place was very negligable and to properly repair the street it became necessary to remove the entire street and replace it completely,

SECTION 5: That Change Order No. 5 for 310-80, Phase I, St. Joe Interceptor Interconnect to Rocco Ferrera & Co., Inc. in connection with the Board of Public Works, for:

with the extensive amount of utility relocation required, it required these additional amounts of replacement,

in the amount of $10,934.79 for Change Order No. 1; the amount of $83,283.00 for Change Order No. 2; the amount of $57,776.40 for Change Order No. 3; the amount of $98,457.20 for Change Order No. 4; and the amount of $31,050.00 for Change Order No. 5, as set out in the specifications, which are on file in the Office of the Board of Public Works and are by reference incorporated herein and made a part hereof, be and the same is in all things ratified, confirmed, and approved.

SECTION 6: That this Ordinance shall be in full force and effect from and after its passage, approval by the Mayor of the City of Fort Wayne, Indiana.

COUNCILMAN

APPROVED AS TO FORM AND LEGALITY THIS 4th DAY OF November 1981.

BRUCE O. BOXBERGER, CITY ATTORNEY

Read the first time in full and on motion by Burns, seconded by ____, and duly adopted, read the second time by title and referred to the Committee City Utilities (and the City Plan Commission for ~~recommendation~~) and Public ~~Hearing to be held~~ after due legal notice, at the Council Chambers, City-County Building, Fort Wayne, Indiana, on ____, the ____ day of ____, 19____, at ____ o'clock ____ M.,E.S.T.

DATE: 11-10-81

Charles W. Westerman
CHARLES W. WESTERMAN
CITY CLERK

Read the third ~~time~~ in full and on motion by Burns, seconded by Talarico, and duly adopted, placed on its passage. PASSED ~~(LOST)~~ by the following vote:

	AYES	NAYS	ABSTAINED	ABSENT	TO-WIT:
TOTAL VOTES	6	1		2	
BURNS	X				
EISBART				X	
GiaQUINTA	X				
NUCKOLS		X			
SCHMIDT, D.				X	
SCHMIDT, V.	X				
SCHOMBURG	X				
STIER	X				
TALARICO	X				

DATE: 11-24-81

Charles W. Westerman
CHARLES W. WESTERMAN - CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as ~~(ZONING MAP)~~ (GENERAL) ~~(ANNEXATION)~~ ~~(SPECIAL)~~ ~~(APPROPRIATION)~~ ORDINANCE ~~(RESOLUTION)~~ No. S-260-81 on the 24th day of November, 19 81.

ATTEST: (SEAL)

Charles W. Westerman — John Nuckols
CHARLES W. WESTERMAN - CITY CLERK — PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 25th day of November, 19 81, at the hour of 11:30 o'clock A M.,E.S.T.

Charles W. Westerman
CHARLES W. WESTERMAN - CITY CLERK

Approved and signed by me this 30th day of Nov. 19 81, at the hour of 11 o'clock A M.,E.S.T.

Winfield C. Moses, Jr.
WINFIELD C. MOSES, JR.
MAYOR

BILL NO. S-81-11-13

REPORT OF THE COMMITTEE ON CITY UTILITIES

WE, YOUR COMMITTEE ON City Utilities TO WHOM WAS REFERRED AN ORDINANCE approving Change Order Nos. 1, 2, 3, 4 and 5 for 310-80, Phase I, St. Joe Interceptor Interconnect in connection with the Board of Public Works

HAVE HAD SAID ORDINANCE UNDER CONSIDERATION AND BEG LEAVE TO REPORT BACK TO THE COMMON COUNCIL THAT SAID ORDINANCE DO PASS.

PAUL M. BURNS, CHAIRMAN

VIVIAN G. SCHMIDT, VICE CHAIRMAN

BEN A. EISBART

SAMUEL J. TALARICO

ROY J. SCHOMBURG

12-4-81
DATE

CONCURRED IN
CHARLES W. WESTERMAN, CITY CLERK

71-104-14a-1
Law 10/28/81

CHANGE ORDER

Change Order No. 1
Project No. C-180599-06
Name of Project: St. Joe Interceptor Interconnect

Resolution No. 310-80-Phase I
Board Order No. 15-80
Date:

To: ROCCO FERRERA & CO., INC.
(Contractor)

Gentlemen:

You are hereby requested to comply with the following changes from the contract plans and specifications:

Item No.	Quantity	Description of Change Description	Unit Price	Change in Contract Price Decrease	Increase
		"SEE ATTACHED SHEET"			
			Total Decrease	158,420.00	
			Total Increase		147,485.21
		Net (Decrease) (~~Increase~~)	Contract Price	10,934.79	

The sum of $ 10,934.79 is hereby (~~added to~~) (deducted from) the total contract price and the final contract price shall be adjusted as follows:

Original Contract Price	$ 3,059,065.00
Current Contract Price Adjusted by Previous Change Order	$ 3,059,065.00
New Contract Price including this Change Order	$ 3,048,130.21

The time provided for completion in the contract for this project is (unchanged) (~~increased~~) (~~decreased~~) by -0- calendar days due to this Change Order. The date for completion of all work shall be N/A. Furthermore, this document shall become an amendment to the contract and all provisions of the contract shall apply hereto.

Recommended by: [signature] Chief Engineer Date 10/22/81

Accepted by: [signature] ~~Engineer~~ Contractor Date 10/22/81

Approved by: [signature] City Engineer Date 10/23/81

Approved by: [signature] Owner Date 10-28-81

[signature]

[signature]

Attested by: [signature] Clerk Date 10-28-81

ATTACHMENT TO CHANGE ORDER

Item No.	Description of Change Quantity	Description	Unit Price	Change in Contract Price Decrease	Increase
4	3± EA	Special Structures SJ-1, 6 and 7	16,100.00	48,300.00	
5	1± EA	Special Structure SJ-2	14,600.00	14,600.00	
6	1± EA	Special Structure SJ-3	8,750.00	8,750.00	
7	3± EA	Special Structures SJ-4, 5 and 11	14,600.00	43,800.00	
8	2± EA	Special Structures SJ-8 and 9	13,400.00	26,800.00	
9	1± EA	Special Structure SJ-10	16,170.00	16,170.00	
45	2± EA	Precast Special Structures SJ-1 and 6	16,613.00		33,226.00
46	1± EA	Precast Special Structure SJ-7	14,355.00		14,355.00
47	1± EA	Precast Special Structure SJ-2	19,661.00		19,661.00
48	1± EA	Precast Special Structure SJ-3	12,047.21		12,047.21
49	1± EA	Precast Special Structure SJ-5	13,029.00		13,029.00
50	2± EA	Precast Spec. Strs. SJ8 and 9	12,049.00		24,098.00
51	1± EA	Precast Special Str. SJ-10	16,118.00		16,118.00
52	1± EA	Precast Special Str. SJ-11	14,182.00		14,182.00
53	1± EA	84" RCP Cl III 7½° Radius Pipe	769.00		769.00
			Total Decrease	158,420.00	
			Total Increase		147,485.21
	Net (Decrease)(~~Increase~~)		Contract Price	10,934.79	

Change Order No. 1

Resolution No. 310-80 - Phase I

Board Order No. 15-80

REQUEST AND JUSTIFICATION FOR CHANGE

1. Necessity for change:

"SEE ATTACHED SHEET"

2. Will proposed change alter size of the project? Yes_____ No X

If yes, explain

3. Affect on operation and maintenance cost of this project:

N/A

Gregory J. Merrill
Project Engineer

JUSTIFICATION FOR CHANGE ORDER NO. 1
Resolution 310-80 - Phase I
St. Joe Study Area - EPA C-180599-06
B.O. #15-80

To save time and money in constructing monolithic structures, the contractor requested the use of precast box structures, radius pipes and transistion structures. In addition to the superior hydraulic characteristics associated in using radius pipes, the change order also reflects a net savings to the City.

The only major changes in this change order are the addition of item #53 and the elimination of Str. SJ-4 from Item #7. The sewer was realigned between Str. SJ-3 and 5 and hence, eliminating Str. SJ-4 completely. This resulted in an increase of unit price for Str. SJ-3 because of angle change. However, the end result is a greater deduct. The realignment was done because of the proposed sewer's close proximity to an electrical substation. The sewer was also realigned through the Lakeside Park between Str. SJ-8 and 9. This resulted in adding a piece of 7½° radius pipe in order to save a very valuable walnut tree in Lakeside Park.

Attached is a breakdown of deducts and additions submitted by the contractor for the use of radius pipe, transition pieces and precast structures. After reviewing the cost breakdown, the Engineering Department feels that they are not out of line and completely justified.

71-104-14a-2 LAW
10/28/81

CHANGE ORDER

Change Order No. -2
Project No. C-180599-06
Name of Project: St. Joe Interconnect Interceptor

Resolution No. 310-80 Phase I
Board Order No. 15-80
Date: 10/13/81

To: Rocco Ferrera & Co., Inc.
(Contractor)

Gentlemen:

You are hereby requested to comply with the following changes from the contract plans and specifications:

Item No.	Quantity	Description of Change Description	Unit Price	Change in Contract Price Decrease	Increase
54	1± EA	Concrete Encasement	5,595.00		5,595.00
55	24± LF	Tunneling under 72" exist. box cul.	1,617.00		38,808.00
56	24± LF	84" RCP Cl III	255.00	6,120.00	
57	5,000± CY	Special Backfill "B" Borrow	9.00		45,000.00
			Total Decrease	6,120.00	
			Total Increase		89,403.00
		Net (~~Decrease~~)(Increase)	Contract Price		83,283.00

The sum of $ 83,283.00 is hereby (added to)(~~deducted from~~) the total contract price and the final contract price shall be adjusted as follows:

Original Contract Price	$3,059,065.00
Current Contract Price Adjusted by Previous Change Order #1	$3,048,130.21
New Contract Price including this Change Order	$3,131,413.21

The time provided for completion in the contract for this project is (unchanged) (~~increased~~) (~~decreased~~) by -0- calendar days due to this Change Order. The date for completion of all work shall be N/A. Furthermore, this document shall become an amendment to the contract and all provisions of the contract shall apply hereto.

Recommended by: [signature] Chief Engineer Date Oct 19, 1981

Accepted by: [signature] Contractor Date 10/13/81

Approved by: [signature] City Engineer Date 10/23/81

Approved by: [signature] Owner Date 10-28-81

[signature]

[signature]

Attested by: [signature] Clerk Date 10-28-81

Change Order No. 2

Resolution No. 310-80 Phase I

Board Order No. 15-80

REQUEST AND JUSTIFICATION FOR CHANGE

1. Necessity for change:

"SEE ATTACHED SHEET"

2. Will proposed change alter size of the project? Yes_____ No_____
If yes, explain

3. Affect on operation and maintenance cost of this project:

Gregory J. Merrill
Project Engineer

JUSTIFICATION FOR CHANGE ORDER NO. 2
Resolution 310-80 - Phase I
St. Joe Study Area - EPA C-180599-06
B.O. 15-80

Item #54
The contractor notified Water Pollution Control Engineering Department that the proposed sewer crossing across the channel between Sta. 9 and 10 needs some type of protection against flotation. The Engineering Department researched this fact and came to the conclusion that approximately 35 CY of concrete encasement is needed to prevent the proposed 68" x 106"eliptical pipe from flotation, especially when the sewer is empty.

The cost of $5,595.00 which generates a unit price of $139/CY in our opinion is fully justifiable and is comparable with other related concrete items on the Federal Projects.

Items 55 and 56
There exists in the vicinty of Str. SJ-5 an existing 72" box culvert. The original intention was to open cut and support the existing culvert with I-beams. However, after researching some facts about the existing culvert which was built in 1938 as a monolithic conduit and consequently, the condition as it exists today, is in question. In view of the above fact, the Engineering Department feels that open cutting and beam support is not enough and the possibility of structural failure and consequent collapse is highly likely.

Therefore, the prime contractor was requested to submit two (2) prices. One of them is to tunnel under box culvert and the other, is to open cut and replace the box culvert. In reviewing the contractor's cost breakdown, as it turns out, it is more cost-effective to tunnel the existing culvert.

The unit cost as submitted by the subcontractor is not the same as previously submitted under unit bid item of Tunneling Anthony Boulevard, which has a unit price of $1,125.00/LF. This is due to mainly two reasons: Firstly, the new shaft depth is four (4) feet deeper than the original shaft on Anthony and, secondly, ground conditions are different. In view of the above facts, the Engineering Department feels that the new unit price is justifiable. Item #56 reflects a deduct of 84" Class III which was to be used as open cut.

Item #57
Additional soil borings taken by the contractor revealed that 90-95% of the project does have material which meets or exceeds the backfill requirements. There were, however, some clay pockets on Tilden Avenue where the contractor had to truck in "B" Borrow. Therefore, a new item had to be negotiated so the contractor can be reimbursed for this material. The unit cost of $9.00/CY was negotiated down from $9.50/CY which is quite comparable to recent bid prices. The 5,000± CY is not an actual quantity but an engineering estimate.

71-104-14a-3

10/28/81

Law

CHANGE ORDER

Change Order No. 3
Project No. C-180599-06
Name of Project: St. Joe Interceptor Interconnect

Resolution No. 310-80 Ph. I
Board Order No. 15-80
Date: 10/13/81

To: ROCCO FERRERA & CO., INC.
(Contractor)

Gentlemen:

You are hereby requested to comply with the following changes from the contract plans and specifications:

Item No.	Quantity	Description of Change Description	Unit Price	Change in Contract Price Decrease	Increase
44	55± EA	Replacement of Trees (3" Diameter)	630.00		34,650.00
58	1320± LF	Lowering of 84" Sewer	17.52		23,126.40
			Total Decrease		
			Total Increase		57,776.40
		Net ~~(Decrease)~~ (Increase)	Contract Price		57,776.40

The sum of $ 57,776.40 is hereby (added to) (~~deducted from~~) the total contract price and the final contract price shall be adjusted as follows:

Original Contract Price	$ 3,059,065.00
Current Contract Price Adjusted by Previous Change Order #2	$ 3,131,413.21
New Contract Price including this Change Order	$ 3,189,189.61

The time provided for completion in the contract for this project is (unchanged) (~~increased~~) (~~decreased~~) by -0- calendar days due to this Change Order. The date for completion of all work shall be N/A. Furthermore, this document shall become an amendment to the contract and all provisions of the contract shall apply hereto.

Recommended by: _____ Chief Engineer Date 10/19/81

Accepted by: _____ ENGINEER Contractor Date 10/13/81

Approved by: _____ City Engineer Date 10/23/81

Approved by: _____ Owner Date 10-28-81

_____

_____

Attested by: _____ Clerk Date 10-28-81

Change Order No. 3

Resolution No. 310-80 - Phase I

Board Order No. 15-80

REQUEST AND JUSTIFICATION FOR CHANGE

1. Necessity for change:

"SEE ATTACHED SHEET"

2. Will proposed change alter size of the project? Yes____ No X

If yes, explain

3. Affect on operation and maintenance cost of this project:

N/A

Gregory J. Merrill
Project Engineer

JUSTIFICATION FOR CHANGE ORDER NO. 3
Resolution 310-80 - Phase I
St. Joe Study Area - EPA C-180599-06
B.O. #15-80

ROCCO FERRERA & CO., INC., Contractor

Item #44
There were approximately 20± trees estimated to be removed. However, actual field count on trees already removed for the proposed sewer construction is a total of 75± trees. To cause minimum amount of relocation with existing utilities, the sewer took one definite route and removed 34 trees on the north side of Tennessee, 2 trees in Lakeside Park, and 39 trees on the north side of Tilden Avenue. This Change Order includes 55 additional over the original bid item, so that the residents can receive comparable to what they lost due to sewer construction.

Item #58
At the time of design, the depth shown on plans for the existing 30" prestreesed water main was taken from old design plans several years ago. Recent exploratory excavation done by the contractor shows that the actual depth of the water main is lower than what is shown on the plans. In order to remove and replace the water main, it would disrupt water service to approximately 40,000 customers for at least two days. Several pipe companies were also contacted as to the availability of 30" prestressed water main or 30" ductile iron. Their response was not encouraging since sizes of these kind are not kept in stock and would have to be special ordered, which consequently would take a minimum of 3-4 months. Therefore, this alternative was not feasible and hence, the only remaining alternative was to lower the proposed 84" sewer, 2± VF from the intersection of Morton and Tilden, since this was the only point on the project where the proposed grade allowed for lowering. The length of the lowering was 1,050± LF ending approximately 100± LF away from the existing water main to the nearest manhole structure. The Engineering Department worked out its own cost estimate, which generated a unit cost of $16.50/LF for the lowering of the line an additional 2 VF.

The contractor was also requested to submit a detailed cost breakdown on the following two (2) items:

1. Lowering of the 84" sewer 2± VF
2. Remove, replace and consequently lower the existing 30" prestressed water main under the proposed 84" sewer.

In referring to the cost breakdown submitted by the contractor on the above two items, it shows that lowering of the proposed sewer would be much more cost-effective. After careful review of the cost and quantity breakdown, the Engineering Department agreed on the cost breakdown, but not on the quantity. The quantity of 1.59CY/LF of additional excavation for 2± VF in our opinion, was too excessive. Upon a series of discussions and negotiations, the above quantity was reduced to 0.75 CY/LF of additional excavation based on O.D. + 30" per specifications. The Engineering Department also directed the contractor to exceed the length of the lowering an additional 270± LF all the way up to Tennessee and California. The additional lowering was needed because of another grade conflict with an existing storm sewer. Therefore, per negotiations with

the contractor, the attached cost breakdown was revised based on 0.75 CY/LF and a total length of 1320 ± LF. The extra dewatering cost as submitted by the contractor did not change much due to this additional 270± LF.

As stated previously, the cost involved in lowering the 84" sewer in our opinion is completely justified and the only cost-effective approach.

11-104-14a-4
10/28/81

CHANGE ORDER

Change Order No. 4
Project No. C-180599-06
Name of Project: St. Joe Interceptor Interconnect

Resolution No. 310-80 Ph. I
Board Order No. 15-80
Date: 10/13/81

To: ROCCO FERRERA & CO., INC.
(Contractor)

Gentlemen:

You are hereby requested to comply with the following changes from the contract plans and specifications:

Item No.	Quantity	Description of Change Description	Unit Price	Change in Contract Price Decrease	Increase
59	10,625± SY	6" Concrete Pavement Removal	6.00		63,750.00
60	844± LF	Line Cutting	3.80		3,207.20
15	3,500± LF	Concrete Curb Replacement	9.00		31,500.00
			Total Decrease		
			Total Increase		98,457.20
		Net (~~Decrease~~)(Increase)	Contract Price		98,457.20

The sum of $ 98,457.20 is hereby (added to)(~~deducted from~~) the total contract price and the final contract price shall be adjusted as follows:

Original Contract Price	$ 3,059,065.00
Current Contract Price Adjusted by Previous Change Order#3	$ 3,189,189.61
New Contract Price including this Change Order	$ 3,287,646.81

The time provided for completion in the contract for this project is (unchanged) (~~increased~~) (~~decreased~~) by -0- calendar days due to this Change Order. The date for completion of all work shall be N/A. Furthermore, this document shall become an amendment to the contract and all provisions of the contract shall apply hereto.

Recommended by: _____ Chief Engineer Date 10/19/81

Accepted by: _____ ENGINEER Contractor Date 10/13/81

Approved by: _____ City Engineer Date 10/23/81

Approved by: _____ Owner Date 10-28-81

_____

_____

Attested by: _____ Clerk Date 10-28-81

Change Order No. 3

Resolution No. 310-80 - Phase I

Board Order No. 15-80

REQUEST AND JUSTIFICATION FOR CHANGE

1. Necessity for change:

"SEE ATTACHED SHEET"

2. Will proposed change alter size of the project? Yes _____ No X

If yes, explain

3. Affect on operation and maintenance cost of this project:

N/A

Gregory J. Mesrill

Project Engineer

JUSTIFICATION FOR CHANGE ORDER NO. 4
Resolution 310-80 - Phase I
St. Joe Study Area - EPA C-180599-06
B.O. #15-80

ROCCO FERRERA & CO., INC., Contractor

Items 59, 60 and 15
Original soil borings taken on this project by the City of Fort Wayne showed that Tilden Avenue had existing concrete pavement under asphalt. However, Tennessee Avenue and California Road did not have any soil borings taken, and therefore, none of the parties were knowledgeable about existing concrete pavement under the existing asphalt. The contractor requested additional compensation for line cutting and removal of concrete pavement on Tennessee Avenue and California Road, but concrete removal on Tilden Avenue was part of his bid and therefore, no additional compensation was requested for Tilden Avenue. Since the above facts were unknown to both parties, the Engineering Department feels that the contractor is justified for some compensation. This additional compensation was to include line cutting and pavement removal for trench width only on Tennessee Avenue and California Road. AFter conferring with Street Engineering personnel, who will maintain these streets after the Federal Projects are done, they advised the Water Pollution Control Engineering Department that it would not be feasible to attempt to salvage any portion of the existing street or curbing outside of the trenching area. Since this is one of the oldest neighborhoods in the City, the decision not to salvage any portion of the existing street was based upon the following:

(a) Inadequate curb height which exists now along the south side of Tilden and Tennessee.The proposed sewer has already been installed on the north side of Tilden and consequently, all the sidewalks and curbing have been removed on this side. The same situation will occur on Tennessee Avenue.

(b) Reflective cracking and settlement that will occur at the "joint" between the existing concrete and the new asphalt to be used to restore the sewer trench.

(c) The opportunity to establish a new grade for these streets (compatible with the existing curb and sidewalk elevation) that would be sacrificed by an attempt to salvage less than half of the existing street.

In addition to the above(a)the percentage of street that would be salvaged is reduced farther by the fact that a major portion of curbing along the south side of Tilden has already been removed to relocate the gas main; (b) relaying 3/4" water services on Tilden and Tennessee would require trench cuts at every 50-feet. In view of the above facts, the Engineering Department feels that it would be good engineering decision to remove all existing pavement and the remaining curbing left in place. Therefore, the Engineering Department feels that the contractor should be compensated for the following:

(a) Remove the remaining existing concrete pavement on Tilden outside of the trench area, based on O.D. + 30.
(b) Remove all of existing concrete pavement from curb-to-curb, including all approaches.
(c) Line cutting on all approaches only.

The contractor was requested to submit a cost breakdown on pavement removal and line cutting. The unit cost of $6.00/SY as submitted was compared with recent bid prices on pavement removal from the Street Engineering Department. These bid prices ranged from a minimum of $5.25/SY to $7.75/SY. Therefore, the Engineering Department concurs with the unit prices as submitted. However, the quantity of 11,030 SY for pavement removal and 3,225 LF for line cutting as submitted by the contractor are excessive. Upon a series of discussions and negotiations, the above quantity of 11,030 SY was reduced to 10,625± SY based on O.D. + 30 on Tilden and full width on Tennessee and California. The line cutting was also reduced from 3,225 LF to 844 LF based on approaches only outside the immediate construction zone. Item #15 which includes extra curbing to be replaced was field measured.

71-104-14 a-5
10/28/81
Law

CHANGE ORDER

Change Order No. 5
Project No. C-180599-06
Name of Project: ST. JOE INTERCONNECT INTERCEPTOR

Resolution No. 310-80 Phase I
Board Order No. 15-80
Date: 10/13/81

To: ROCCO FERRERA & CO., INC.
(Contractor)

Gentlemen:

You are hereby requested to comply with the following changes from the contract plans and specifications:

Item No.	Quantity	Description of Change Description	Unit Price	Change in Contract Price Decrease	Increase
16	9,000± SF	4" Sidewalk Replacement	2.65		23,850.00
61	300± SY	8" Concrete Driveways	24.00		7,200.00
			Total Decrease		
			Total Increase		31,050.00
		Net (~~Decrease~~)(Increase)	Contract Price		31,050.00

The sum of $ 31,050.00 is hereby (added to)(~~deducted from~~) the total contract price and the final contract price shall be adjusted as follows:

Original Contract Price	$ 3,059,065.00
Current Contract Price Adjusted by Previous Change Order	$ 3,287,646.81
New Contract Price including this Change Order	$ 3,318,696.81

The time provided for completion in the contract for this project is (unchanged)(~~increased~~) (~~decreased~~) by -0- calendar days due to this Change Order. The date for completion of all work shall be N/A. Furthermore, this document shall become an amendment to the contract and all provisions of the contract shall apply hereto.

Recommended by: [signature] Chief Engineer Date 10/19/81

Accepted by: [signature] ~~Engineer~~ Contractor Date 10/15/81

Approved by: [signature] City Engineer Date 10/23/81

Approved by: [signature] Owner Date 10-28-81

[signature]

[signature]

Attested by: [signature] Clerk Date 10-28-81

Change Order No. 5

Resolution No. 310-80 Phase I

Board Order No. 15-80

REQUEST AND JUSTIFICATION FOR CHANGE

1. Necessity for change:

SEE ATTACHED JUSTIFICATION

2. Will proposed change alter size of the project? Yes_____ No X
If yes, explain

3. Affect on operation and maintenance cost of this project:

N/A

Gregory J. Merrill
Project Engineer

JUSTIFICATION FOR CHANGE ORDER NO. 5
Resolution 310-80 - Phase I
St. Joe Study Area
B.O. #15-80 - EPA C-180599-06

ROCCO FERRERA & CO., INC., Contractor

Item #16
The original bid estimate included 6,200 SF of sidewalk replacement, which at the time the Engineering Department felt the quantity would be destoryed due to the proposed 84" sewer construction. This original estimate was based on all sidewalk removal and replacement on one side of Tilden Avenue completely. Due to the shallow depth of the proposed sewer on Tennessee Avenue, the Engineering Department did not estimate sidewalk removal and replacement and felt that by proper construction techniques, most of the sidewalk on Tennessee could be saved.

However, Tennessee Avenue being one of the oldest streets in that neighborhood, consisted of enormous quantity of existing underground utilities, such as twin gas lines, water lines, existing sanitary and storm sewer lines, electrical ducts, etc. In order to install the proposed 84" sewer with the best construction methods, and with minimal avmount of damage to existing utilities and at the same time keep the existing sanitary system functioning, it was necessary to relocate:

(a) Relocate existing 6" water main from the middle of the pavement to the curb line.

(b) Relocate the existing 8" and 4" gas mains from the construction zone, and install the new gas mains under the sidewalk on Tennessee Avenue.

The overrun of approximately 9,000± SF comes from the fact that all sidewalks had to be removed in order to accommodate the new gas line on the north side of Tennessee Avenue. The South side of Tennessee could not be used for the relocation since this side consisted of existing storm and sanitary sewers. Therefore, the Engineering Department was left with this only option of removing all the sidewalk and at the same time, keep all the existing utilities functioning.

Item #61
This is a new item which was neglected in the original bid items. Street Engineering specifications call for 8" concrete when sewers cross commercial driveways and alleys. The quantity of 300± SY has been estimated and the unit price of $24.00/SY was negotiated down from $27.00/CY which in the Engineering Department's opinion is quite comparable to recent bid prices.

5487

E-81-11-13.

TITLE OF ORDINANCE Change Orders 1,2,3,4 & 5 for 310-80, Phase I, St. Joe Interceptor Interconnect

DEPARTMENT REQUESTING ORDINANCE BOARD OF PUBLIC WORKS

SYNOPSIS OF ORDINANCE CHANGE ORDERS 1,2,3,4 & 5 for 310-80,Phase I, St. Joe Interceptor Interconnect, Rocco Ferrera & Co., Inc. - Contractors. Change Order 1 - This change eliminates the poured in place manhole structures and replaces them with precast structures. Change Order 2 - Due to the shallowness of our 68" x 106" Eliptical pipe, and a possibility of it floating in the area of the River Channel it became necessary to encase the pipe in concrete to eliminate any possible chance of floatation. Field conditions on the 72" drainage structure differed from those originally anticipated and made it necessary to tunnel under the box structure instead of open cutting of the installation Also, the excavated material which was to be used as backfill was spoted in certain areas and it became necessary to use a special "B" Borrow Backfill. TURN OVER PAGE FOR ADDITIONAL CHANGE ORDERS.

EFFECT OF PASSAGE The continuation of the St. Joe Interceptor Interconnect, Phase I.

EFFECT OF NON-PASSAGE The above described project cannot be completed.

MONEY INVOLVED (DIRECT COSTS, EXPENDITURE, SAVINGS) Change Order #1 - $10,934.79; Change Order 2 - $83,283.00; Change Order 3 - $57,776.40; Change Order #4 - $98,457.20; Change Order #5 - $31,050.00 to be paid for 75% EPA, 10% State, 15% City Utilities.

ASSIGNED TO COMMITTEE

sa

CHANGE ORDER #3 - Due to a conflict between the utility, relocation and trees on Tennesse Ave. and Tilden Ave. it became necessary to remove the trees along the North Side of these Streets to allow room for those utilities. With this change it increased the # trees removed and therefore requiring additional replacement.

CHANGE ORDER #4 - Once construction began on Tennessee and California Road the excavation became so extensive and so many cross cuts in the pavement were required that the amount of existing pavement left in place was very negligable and to properly repair the street it became necessary to remove the entire street and replace it completely.

CHANGE ORDER #5 - With the extensive amount of utility relocation required it required these additional amounts of replacement.